

NFPA FIRE HAZARD SYMBOLT See NFPA 704 for detailed explanation.

MATERIAL SAFETY DATA SHEET

No.: 3512 Rev. No.: 2 Date Revised: 04/09/85



I. PRODUCT IDENTIFICATION

Trade Name(s): SPIN GLAS 812-817-

Generic Name: FIBROUS GLASS INSULATION - Algoris Glass Chemical Name: NA

CAS #: NA Formula: MIXTURE

Manufacturer: MANVILLE BUILDING MATERIALS CORP.

Address: P.O. BOX 5108

City: DENVER

State: CO

Zip: 80217

Telephone: (303)978-3120 Emergency:

CE007 47 0		EXPOSURE LIMIT
65997-17-3 25104-55-6	90-94 6-10	
• •		
	25104-55-6	25104-55-6 6-10

III. PHYSICAL DATA

Appearance and Odor: AMBER FIBROUS BATT OR BOARD, FACED OR UNFACED - SLIGHT PHENOLIC ODOR.

Boiling Point: NA Vapor Pressure: NA Water Solubility (%): NIL Vapor Density (Air=1): NA Evaporation Rate (= 1): NA Specific Gravity (water = 1): VAR Melting Point: >1300° F % Volatile by Volume: NA

IV. FIRE AND EXPLOSION DATA

Flash Point (Method): NA

Flammable Limits: LEL: % UEL: NA % Auto-Ignition Temperature: NA

Extinguishing Media: CO2, WATER, WATER FOG, DRY CHEMICAL ABC RATED.

Unusual Fire or Explosion Hazards: RESIN AND PAPER OR PLASTIC FACINGS WILL BURN CAUSING DENSE ACRID SMOKE.

Special Fire-Fighting Procedures: USE SELF-CONTAINED BREATHING APPARATUS.

V. HEALTH HAZARDS A. Summary/Risks

Summary: CURRENT ANIMAL AND EPIDEMIOLOGICAL STUDIES INDICATE THAT GLASS FIBERS AND DUST DO NOT REPRESENT A HAZARD TO HEALTH.

THIS PRODUCT IS NOT CONSIDERED A CARCINOGEN.

Medical conditions which may be aggravated: PRE-EXISTING UPPER RESPIRATORY AND LUNG DISEASES SUCH AS. BUT NOT LIMITED TO, BRONCHITIS, EMPHYSEMA AND ASTHMA.

Target Organ(s): LUNGS & SKIN.

Acute Health Effects: IRRITATION TO SKIN AND UPPER RESPIRATORY SYSTEM.

Chronic Health Effects: NO LONG TERM EFFECTS HAVE BEEN IDENTIFIED.

Primary Entry Route(s): INHALATION, SKIN CONTACT.

SPIN GLAS 812-817

MSDS: 3512

/Page 2 Rev: 2

V. HEALTH HAZARDS B. Signs/Symptoms of Overexposure

Inhalation: IRRITATION OR TICKLE IN THROAT AND NOSE.

Skin Contact: TEMPORARY IRRITATION OR RASH.

Skin Absorption: NA

Ingestion: NOT HAZARDOUS WHEN INGESTED. MAY CAUSE TEMPORARY IRRITATION TO GI TRACT.

Eyes: TEMPORARY IRRITATION OR INFLAMMATION.

V. HEALTH HAZARDS C. First Aid/Emergency Procedures

Inhalation: REMOVE TO FRESH AIR. DRINK WATER TO CLEAR THROAT AND BLOW NOSE.

Skin Contact: WASH EXPOSED AREAS GENTLY WITH SOAP AND WARM WATER.

Skin Absorption: NA

Ingestion: NA

Eyes: FLUSH EYES WITH COPIOUS QUANTITIES OF WATER A MINIMUM OF 15 MINUTES. IF IRRITATION PERSISTS CONSULT A PHYSICIAN.

VI. REACTIVITY DATA

MATERIAL IS STABLE HAZARDOUS POLYMERIZATION CANNOT OCCUR. Chemical Incompatibilities: HYDROFLUORIC ACID. Conditions to Avoid: NONE IN DESIGNED USE.

Hazardous Decomposition Products: CARBON DIOXIDE, CARBON MONOXIDE, CARBON PARTICULATE & TRACES OF HYDROGEN CYANIDE DERIVED FROM PYROLYSIS OF THE RESIN AS IS TYPICAL OF DECOMPOSITION OF ANY ORGANIC CHEMICAL.

VII. SPILL OR LEAK PROCEDURES

Procedures for Spill/Leak: VACUUM CLEAN DUST. IF SWEEPING IS NECESSARY USE A DUST SUPPRESSANT.

Waste Management: WASTES GENERATED DURING APPLICATION, DEMOLITION, BREAKAGE OR SPILLAGE ARE NOT HAZARDOUS WASTES AS DEFINED BY RCRA (40 CFR PART 261). COMPLY WITH FEDERAL, STATE AND LOCAL REGULATIONS. METHOD OF DISPOSAL-LANDFILL. RQ - N/A.

VIIL SPECIAL PROTECTION INFORMATION

Goggles: GOGGLES OR FACE SHIELDS ARE RECOMMENDED PARTICULARLY WHEN WORKING OVERHEAD. Gloves:

Respirator: USE A MASK SUCH AS 3M 8710 OR EQUIVALENT FOR PROTECTION AGAINST NUISANCE DUST. INSURE PROPER FIT.

Ventilation: USE SUFFICIENT NATURAL OR MECHANICAL VENTILATION TO MAINTAIN AIRBORNE CONCENTRATIONS BELOW PEL (TLV)

Other: WEAR LODSE FITTING, LONG SLEEVED CLOTHING.

Special Considerations for repair/maintenance of contaminated equipment:

IX. SPECIAL PRECAUTIONS

Storage Segregation Hazard Classes: IRRITANT

ALWAYS SEGREGATE MATERIALS BY MAJOR HAZARD CLASS *** ***

Special Handling/Storage: KEEP MATERIAL DRY

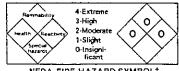
Special Workplace Engineering Controls: NOT NORMALLY REQUIRED.

Other:

Prepared/Revised by: KENNETH A. ROBERTS

Title: MGR., ENVIRONMENTAL SERVICES

As of the date of preparation of this document, the foregoing information is believed to be accurate and is provided in good faith to comply with applicable federal and state law(s). However, no warranty or representation with respect to such information is intended or given.



NFPA FIRE HAZARD SYMBOLT See NFPA 704 for detailed explanation.

MATERIAL SAFETY DATA SHEET

No.: 3106 Rev. No.: 2 Date Revised: 04/09/85

Manville

1/ PRODUCT IDENTIFICATION OF A 25 40

Trade Name(s): SPIN GLAS 1000 - BOARD

Generic Name: FIBROUS GLASS/INSULATION ...

医感染病毒 医整体硬件 医斯马斯氏试验 电路电压 鐵鐵

Chemical Name: NA

CAS #: NA

Formula: MIXTURE

Manufacturer: MANVILLE BUILDING MATERIALS CORP.

Address: P.O. BOX 5108

City: DENVER

State: CO

Zip: 80217

Telephone: (303)978-3120 Emergency:

INGREDIENT NAME	CAS NUMBER	%	PEL and TLV (except as noted)
FIBROUS GLASS PHENOLFORMALDEHYDE RESIN-CURED	65997-17-3 25104-55-6	96 4	5mg/m³ - NUISANCE RESPIRABLE DUST (OSHA)
e se se			
₩ >y			

Appearance and Odor: PALE YELLOW/BROWN SEMI-RIGID FIBROUS BOARD - SLIGHT PHENOLIC ODOR.

Boiling Point: NA Vapor Pressure: NA Water Solubility (%): NIL Vapor Density (Air = 1): NA

Evaporation Rate (= 1):NASpecific Gravity (water = 1): VAR

Melting Point: >1300° F % Volatile by Volume: NA

IV. FIRE AND EXPLOSION DATA

Flash Point (Method): NA

UEL: NA %

NFPA Flammable/Combustible Liquid Classification: NA

Auto-Ignition Temperature: NA

Flammable Limits: LEL:

Extinguishing Media: CO2. WATER, WATER FOG. DRY CHEMICAL ABC RATED.

Unusual Fire or Explosion Hazards: RESIN AND PAPER OR PLASTIC FACINGS WILL BURN CAUSING DENSE ACRID SMOKE.

Special Fire-Fighting Procedures: USE SELF-CONTAINED BREATHING APPARATUS.

A. Summary/Risks

Summary: CURRENT ANIMAL AND EPIDEMIOLOGICAL STUDIES INDICATE THAT GLASS FIBERS AND DUST DO NOT REPRESENT A HAZARD TO HEALTH.

THIS PRODUCT IS NOT CONSIDERED A CARCINOGEN BY NTP, IARC AND OSHA.

Medical conditions which may be aggravated: PRE-EXISTING UPPER RESPIRATORY AND LUNG DISEASES SUCH AS. BUT NOT LIMITED TO, BRONCHITIS, EMPHYSEMA AND ASTHMA. Target Organ(s): LUNGS & SKIN.

Acute Health Effects: IRRITATION TO SKIN AND UPPER RESPIRATORY SYSTEM.

Chronic Health Effects: NO LONG TERM EFFECTS HAVE BEEN IDENTIFIED.

Primary Entry Route(s): INHALATION, SKIN CONTACT.

Copyright 9 1980. National Fire Protection Assoc., Quincy, MA 02269. This reprinted material is not the complete and official nostition of the NFPA on the referenced subject, MSQM/143-00:29/00011 which is represented only by the standard in its entirety.

E'A Mech Mont ropped Eled grand

SPIN GLAS 1000 - BOARD

MSDS: 3106

Rev: 2 /Page 2

V. HEALTH HAZARDS B. Signs/Symptoms of Overexposure

Inhalation: IRRITATION OR TICKLE IN THROAT AND NOSE.

Skin Contact: TEMPORARY IRRITATION OR RASH.

Skin Absorption: NA

Ingestion: NOT HAZARDOUS WHEN INGESTED. MAY CAUSE TEMPORARY IRRITATION TO GI TRACT.

Eyes: TEMPORARY IRRITATION OR INFLAMMATION.

V. HEALTH HAZARDS C. First Aid/Emergency Procedures

Inhalation: REMOVE TO FRESH AIR. DRINK WATER TO CLEAR THROAT AND BLOW NOSE.

Skin Contact: WASH EXPOSED AREAS GENTLY WITH SOAP AND WARM WATER.

Skin Absorption: NA

Ingestion: NA

Eyes: FLUSH EYES WITH COPIOUS QUANTITIES OF WATER A MINIMUM OF 15 MINUTES. IF IRRITATION PERSISTS CONSULT A PHYSICIAN.

VI. REACTIVITY DATA TO THE WORLD

MATERIAL IS STABLE. HAZARDOUS POLYMERIZATION CANNOT OCCUR. Chemical Incompatibilities: HYDROFLUORIC ACID.

Conditions to Avoid: NONE IN DESIGNED USE.

Hazardous Decomposition Products: CARBON DIOXIDE, CARBON MONOXIDE, CARBON PARTICULATE & TRACES OF HYDROGEN CYANIDE DERIVED FROM PYROLYSIS OF THE RESIN AS IS TYPICAL OF DECOMPOSITION OF ANY ORGANIC CHEMICAL.

VII. SPILL OR LEAK PROCEDURES

Procedures for Spill/Leak: VACUUM CLEAN DUST. IF SWEEPING IS NECESSARY USE A DUST SUPPRESSANT.

Waste Management: WASTES GENERATED DURING APPLICATION, DEMOLITION, BREAKAGE OR SPILLAGE ARE NOT HAZARDOUS WASTES AS DEFINED BY RCRA (40 CFR PART 261). COMPLY WITH FEDERAL, STATE AND LOCAL REGULATIONS. METHOD OF DISPOSAL-LANDFILL. RQ - N/A.

VIII. SPECIAL PROTECTION INFORMATION A PROPERTY OF THE PROPERT

Goggles: GOGGLES OR FACE SHIELDS ARE RECOMMENDED PARTICULARLY WHEN WORKING DVERHEAD. Gloves:

Respirator: USE A MASK SUCH AS 3M 8710 OR EQUIVALENT FOR PROTECTION AGAINST NUISANCE DUST. INSURE PROPER FIT.

Ventilation: USE SUFFICIENT NATURAL OR MECHANICAL VENTILATION TO MAINTAIN AIRBORNE CONCENTRATIONS BELOW PEL (TLV).

Other: WEAR LOOSE FITTING, LONG SLEEVED CLOTHING.

Special Considerations for repair/maintenance of contaminated equipment:

IX. SPECIAL PRECAUTIONS

Storage Segregation Hazard Classes: IRRITANT

*** ALWAYS SEGREGATE MATERIALS BY MAJOR HAZARD CLASS ***

Special Handling/Storage: KEEP MATERIAL DRY

Special Workplace Engineering Controls: NOT NORMALLY REQUIRED.

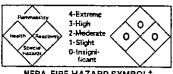
Other:

Prepared/Revised by: KENNETH A. ROBERTS

Title: MGR., ENVIRONMENTAL SERVICES

As of the date of preparation of this document, the foregoing information is believed to be accurate and is provided in good faith to comply with applicable federal and state law(s). However, no warranty or representation with respect to such information is intended or given.

MSD3 FORM REV. 02/03/86



NFPA FIRE HAZARD SYMBOL†
See NFPA 704 for detailed explanation.

MATERIAL SAFETY DATA SHEET

No.: 3107 Date Revised: 0

Rev. No.: 2 04/09/85

Manville

RES'Q DEC 2.0 1985

I. PRODUCT IDENTIFICATION

Trade Name(s) : SPIN-GLASS PRECIPITATOR

Generic Name: FIBROUS GLASS INSULATION - f. brows 9 ass

Chemical Name: NA

CAS #: NA Formula: MIXTURE

Manufacturer: MANVILLE BUILDING MATERIALS CORP.

Address: P.O. BOX 5108

City: DENVER

State: CO

Zip: 80217

Telephone: (303)978-3120

Emergency:

INGREDIENT NAME	CAS NUMBER	%	PERMISSIBLE EXPOSURE LIMIT
IBROUS GLASS PHENDLFORMALDEHYDE RESIN-CURED .	65997-17-3 25104-55-6	95 5	5mg/m³ - NUISANCE RESPIRABLE DUST (OSHA)
The Market of the Control of the Con			

III. PHYSICAL DATA

Appearance and Odor: PALE YELLOW/BROWN FIBROUS BOARD - SLIGHT PHENOLIC ODOR.

Boiling Point: NA Vapor Pressure: NA Water Solubility (%): NIL Vapor Density (Air=1): NA

Evaporation Rate (= 1): NA Specific Gravity (water = 1): VAR Melting Point: >1300° F

% Volatile by Volume: NA

IV. FIRE AND EXPLOSION DATA

Flash Point (Method): NA Flammable Limits: LEL:

UEL: NA %

NFPA Flammable/Combustible Liquid Classification: NA

Auto-Ignition Temperature: NA

Extinguishing Media: CO2, WATER, WATER FOG, DRY CHEMICAL ABC RATED.

Unusual Fire or Explosion Hazards: RESIN AND PAPER OR PLASTIC FACINGS WILL BURN CAUSING DENSE ACRID SMOKE.

Special Fire-Fighting Procedures: USE SELF-CONTAINED BREATHING APPARATUS.

V. HEALTH HAZARDS A. Summary/Risks

Summary: CURRENT ANIMAL AND EPIDEMIOLOGICAL STUDIES INDICATE THAT GLASS FIBERS AND DUST DO NOT REPRESENT A HAZARD TO HEALTH.

THIS PRODUCT IS NOT CONSIDERED A CARCINOGEN.

%

Medical conditions which may be aggravated: PRE-EXISTING UPPER RESPIRATORY AND LUNG DISEASES SUCH AS, BUT NOT LIMITED TO, BRONCHITIS, EMPHYSEMA AND ASTHMA.

Target Organ(s): LUNGS & SKIN.

Acute Health Effects: IRRITATION TO SKIN AND UPPER RESPIRATORY SYSTEM.

Chronic Health Effects: NO LONG TERM EFFECTS HAVE BEEN IDENTIFIED.

Primary Entry Routels): INHALATION, SKIN CONTACT.

CQP- nech more offer Elect Court

SPIN-GLASS PRECIPITATOR

MSDS: 3107

Rev: 2 /Page 2

V. HEALTH HAZARDS B. Signs/Symptoms of Overexposure

Inhalation: IRRITATION OR TICKLE IN THROAT AND NOSE.

Skin Contact: TEMPORARY IRRITATION OR RASH.

Skin Absorption: NA

Ingestion: NOT HAZARDOUS WHEN INGESTED. MAY CAUSE TEMPORARY IRRITATION TO GI TRACT.

Eyes: TEMPORARY IRRITATION OR INFLAMMATION.

V. HEALTH HAZARDS C. First Aid/Emergency Procedures

Inhalation: REMOVE TO FRESH AIR. DRINK WATER TO CLEAR THROAT AND BLOW NOSE.

Skin Contact: WASH EXPOSED AREAS GENTLY WITH SOAP AND WARM WATER.

Skin Absorption: NA

Ingestion: NA

Eyes: FLUSH EYES WITH COPIOUS QUANTITIES OF WATER A MINIMUM OF 15 MINUTES. IF IRRITATION PERSISTS CONSULT A PHYSICIAN.

VL REACTIVITY DATA

MATERIAL IS STABLE. HAZARDGUS POLYMERIZATION CANNOT DCCUR. Chemical Incompatibilities: HYDROFLUDRIC ACID. Conditions to Avoid: NONE IN DESIGNED USE.

Hazardous Decomposition Products: CARBON DIOXIDE, CARBON MONOXIDE, CARBON PARTICULATE & TRACES OF HYDROGEN CYANIDE DERIVED FROM PYROLYSIS OF THE RESIN AS IS TYPICAL OF DECOMPOSITION OF ANY ORGANIC CHEMICAL.

VII. SPILL OR LEAK PROCEDURES

Procedures for Spill/Leak: VACUUM CLEAN DUST. IF SWEEPING IS NECESSARY USE A DUST SUPPRESSANT.

Waste Management: WASTES GENERATED DURING APPLICATION, DEMOLITION, BREAKAGE OR SPILLAGE ARE NOT HAZARDOUS WASTES AS DEFINED BY RCRA (40 CFR PART 261). COMPLY WITH FEDERAL, STATE AND LOCAL REGULATIONS. METHOD OF DISPOSAL-LANDFILL. RO - N/A.

VIIL SPECIAL PROTECTION INFORMATION

Goggles: GOGGLES OR FACE SHIELDS ARE RECOMMENDED PARTICULARLY WHEN WORKING OVERHEAD.

Respirator: USE A MASK SUCH AS 3M 8710 OR EQUIVALENT FOR PROTECTION AGAINST NUISANCE DUST. INSURE PROPER FIT.

Ventilation: USE SUFFICIENT NATURAL OR MECHANICAL VENTILATION TO MAINTAIN AIRBORNE CONCENTRATIONS BELOW PEL (TLV).

Other: WEAR LOOSE FITTING, LONG SLEEVED CLOTHING.

Special Considerations for repair/maintenance of contaminated equipment:

IX. SPECIAL PRECAUTIONS

Storage Segregation Hazard Classes: IRRITANT

*** ALWAYS SEGREGATE MATERIALS BY MAJOR HAZARD CLASS ***

Special Handling/Storage: KEEP MATERIAL DRY

Special Workplace Engineering Controls: NOT NORMALLY REQUIRED.

Other:

Prepared/Revised by: KENNETH A. ROBERTS

Title: MGR., ENVIRONMENTAL SERVICES

As of the date of preparation of this document, the foregoing information is believed to be accurate and is provided in good faith to comply with applicable federal and state law(s). However, no warranty or representation with respect to such information is intended or given.

MSD 1